

AMENDMENTS TO THE CLAIMS

1. (Previously Presented) A rolling bearing comprising:
an inner ring, an outer ring, and a plurality of rolling elements rotatably disposed therebetween and a space accommodating said rolling elements and having at least one end part opening opened in an axial direction thereof, wherein the space is formed between the inner circumferential surface of the outer ring and the outer circumferential surface of the inner ring, and
a sealing film covering said space, said sealing film comprising:
a first portion substantially covering at least a part of the end part opening of the space;
a second portion being bonded and fixed to an axial direction extreme endmost surface of one of the inner and outer rings;
a core layer; and
an aluminum or alumina film disposed on said core layer.
2. (Previously Presented) The rolling bearing according to claim 1, further comprising:
an adhesive layer further disposed on said aluminum or alumina film, said adhesive layer constituting the second portion.
3. (Previously Presented) The rolling bearing according to claim 2, wherein said sealing film is substantially formed into a circular shape.
4. (Previously Presented) The rolling bearing according to claim 3, wherein said sealing film is substantially formed into an annular shape.
5. (Previously Presented) The rolling bearing according to claim 3, wherein said sealing film has a knob portion which is outwardly protruded therefrom in an radial direction.

6. (Previously Presented) The rolling bearing according to claim 4, wherein said sealing film has a knob portion which is outwardly protruded therefrom in an radial direction.

7. (Previously Presented) The rolling bearing according to claim 4, wherein said sealing film has a knob portion which is inwardly protruded therefrom in an radial direction.

8. (Previously Presented) The rolling bearing according to claim 1, wherein the second portion is bonded and fixed to the axial direction end surface with a predetermined detachable bonding force.

9. (Previously Presented) The rolling bearing according to claim 1, wherein the second portion is bonded and fixed to the axial direction end surface through an adhesive having a predetermined detachable bonding force which is lowerable when the adhesive is subject to an ultraviolet ray irradiation.

10. (Previously Presented) The rolling bearing according to claim 1, wherein the second portion is bonded and fixed to the axial direction end surface through an adhesive having a predetermined detachable bonding force which is lowerable when the adhesive is heated.

11-12. (Canceled)

13. (Previously Presented) A thin motor comprising:
a first member on which a stator is supported and fixed;
a second member on which a rotor facing the stator is supported and fixed; and
a rolling bearing relatively and rotatably combining said second member with said first member;

wherein the outer diameter size of the rotor is seven times or more as much as the axial direction size of the motor as a whole, and

wherein said rolling bearing comprises,
an inner ring;

an outer ring;

a plurality of rolling elements rotatably disposed therebetween and accommodated with a space which has at least one end part opening opened in the axial direction thereof and is formed between the inner circumferential surface of the outer ring and the outer circumferential surface of the inner ring; and

a sealing film including a first portion substantially covering at least a part of the end part opening of the space, and a second portion being bonded and fixed to the axial direction end surface of at least one of said inner and outer rings.

14. (Previously Presented) The thin motor according to claim 13, wherein said sealing film comprises:

a core layer;

an aluminum or alumina film disposed on said core layer; and

an adhesive layer further disposed on said aluminum or alumina film, said adhesive layer constituting the second portion.

15. (Previously Presented) A bearing device comprising:

an axis side member including a cylindrical part with an inner ring mounted externally, and an outward flange part disposed on one end side in the axial direction;

a housing including a ring part with an outer ring mounted internally, and an outward flange part disposed on the other end part in the axial direction;

a rolling bearing disposed between said axis side member and said housing and having an outside surface covered by said outward flange part of said axis side member;

a sheet covering a gap between the inner ring and the outer ring and disposed externally on an extreme endmost side of the other end part in the axial direction of the bearing device, the sheet being bonded on at least one of the outward flange part of the housing, the inner ring and the outer ring by a detachable bonding force,

wherein the detachable bonding force is lowerable when the bonded portion of the sheet is heated.

16. (Previously Presented) The bearing device according to claim 15, wherein detachable force is lowerable when the bonded portion of the sheet is subject to an ultraviolet ray irradiation.

17. (Canceled)

18. (Previously Presented) A thin motor comprising:
a first member on which a stator is supported and fixed;
a second member on which a rotor facing the stator is supported and fixed; and
a rolling bearing, according to claim 1, relatively and rotatably combining said second member with said first member.

19. (Previously Presented) The thin motor according to claim 18, wherein the outer diameter size of the rotor is seven times or more as much as the axial direction size of the motor as a whole.

20. (Previously Presented) The bearing device according to claim 15, wherein said sheet is a sealing film.

21. (New) The thin motor according to claim 15, wherein the sheet is bonded to at least one of an outer end surface of the inner ring, of the outer ring, and of the outward flange part, in the axial direction.